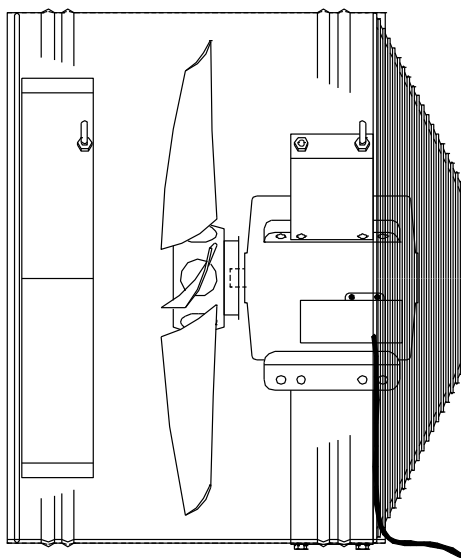




INSTRUCTIONS FOR USE INSTALLATION GUIDELINES



R 14
R 18

R 16
R 20



Thank you for placing your trust in us!

We are pleased that you have chosen your new recirculation fan from
Ademco 2 GMBH Resideo

R 14 – R 20

We are confident that you will be satisfied with your purchase.



CE Konformitätserklärung
Declaration of Conformity

Produkt <i>Product</i>	Heizgeräte zur Gewächshaus- und Stallbeheizung <i>Heating appliances for greenhouse- and stable heating</i>	
Typ, Ausführung <i>Type, Model</i>	P40, P60, P80, P100 and P120 oil heater (also mobile version) RGA95 oil heater	
Produkt-Markierung <i>Product marking</i>	CE	
EG-Anforderung/ Richtlinien <i>EC Regulation and Directives</i>	2006/42/EC 2014/30/EU 2014/35/EU	MD EMC LVD
Norms <i>Standards</i>	EN60335-1:2012, EN60335-2-102:2016, EN55011-2016, EN61000-6-2:2016, EN50465-2015	
Qualitätsmanagement <i>Quality Management</i>	EN ISO 9001:2015 National Quality Assurance (NQA), US	

Wir erklären als Hersteller:

Die entsprechend gekennzeichneten Produkte erfüllen die Anforderungen der aufgeführten Anforderungen, Richtlinien und Normen. Sie stimmen mit dem geprüften Baumuster überein. Die Herstellung unterliegt dem genannten Überwachungsverfahren. Ademco 2 GmbH ist bevollmächtigt, die relevante technische Dokumentation zusammenzustellen.

We declare as manufacturer:

Products labelled accordingly meet the requirements of the listed regulation, directives and standards. They are conforming to the examined type samples. The production underlies the stated surveillance procedure. Ademco 2 GmbH is authorized to compile the relevant technical documentation.

27.07.2020


Tamás Kun
Managing Director
Sanmina SCI Magyarország Kft


Marcel van der Landt
Portfolio development manager
Ademco 2 GmbH

Sanmina SCI Magyarország Kft, H-2800 Tatabánya, Kóta József utca 2.

Warranty Statement

We provide a warranty according to our international trade terms.

To guarantee optimal performance of your new device and ensure your personal safety, please read the instructions carefully before first use. Pay particular attention to the warning symbols.

1. General

1.1. Symbols

In the user manual, the following symbols are used:

-  Warning for a hazardous situation
-  Warning for electrical voltage
-  Wear protective gloves

1.2. Special Safety Instructions

- **Attention!** This symbol points to risks or actions that may lead to minor personal injury or material damage.
-  This symbol provides handy tips for efficient, economical, and environmentally friendly use of the device.

1.3. General Safety Regulations

- Do not use the R 14 - R 20 fans from ERMAF for purposes other than those for which they are intended. Any other use is entirely at your own risk. The manufacturer is not liable for any resulting damage.
- Proper use of the device includes compliance with the manufacturer's conditions for use, maintenance, and installation.
- Observe applicable preventive safety regulations and other widely recognized safety and health guidelines.
- Check the operation of safety features and device functions before use, at regular intervals, and after modifications or repairs.
- Follow the regulations of the power company.

1.4. Electrical Installation

- Any work on the device that does not fall under normal maintenance must be performed by a professional.
- Always disconnect the power during work on the device.
- Before use, check the electrical wiring for signs of damage. Do not use the device until any damaged wires are replaced.
- Damaged or defective plugs must be replaced by a certified electrician.
- Never pull the plug by the cord from the socket.
- Do not cover the electric motor, as this could interfere with cooling, cause overheating, and lead to fire or damage.

1.5. Maintenance

-
- ⚠ **Attention!** Always disconnect the power when performing maintenance on the electrical device.
 - Repairs must be carried out by qualified personnel with the necessary training or experience to perform the work properly.
 - Repair, maintenance, and cleaning may only be done when the power is disconnected, and the motor has stopped. This applies to troubleshooting as well.
 - 🧤 Always wear protective gloves to prevent hand injuries.
 - After repairs, ensure the equipment still complies with all regulations before putting it back into service.
 - Use original spare parts to meet the manufacturer's specifications.

1.6. Ordering Parts

When ordering parts, provide the following details:

- The code number and description of the part or the position number with the description and number from the manual for non-coded parts.
- The original invoice number.
- The power supply type, such as 230/400 V 3-phase 50 Hz.

1.7. Liability

The manufacturer is not liable for damage resulting from unauthorized modifications to the machine or software made by the user.

1.8. Malfunctions Due to Power Failure

For the safety of animals, plants, and your heating system, it is advisable to install an alarm system. During a power failure, an emergency generator should automatically take over the power supply. PTO-driven emergency generators that can be connected to a tractor can also be used. For more information, contact your insurance company.

1.9. First Aid

Unless otherwise specified, a first aid kit should always be present in the workplace for emergencies. Used materials should be replenished immediately. When seeking help after an accident, always provide the following details:

- The location of the accident.
- What happened.
- How many are injured.
- The nature of the injuries.
- Do not forget to give your name!

1.10. Waste Disposal

Non-reusable packaging materials and other unusable parts should be handed over to the responsible waste management authorities.

1.11. Modifications

The publisher reserves the right to modify the contents without prior notice. If you encounter errors or incorrect information in this manual, please inform us.

resideo

Ademco 2 GmbH
Hansastraße 6, 49504 Lotte (Büren)
Germany
Tel. +49 541 982 490
orders.ermaf@resideo.com
www.ermaf.nl

2. Introduction

2.1. System Description

Modern greenhouses are becoming more airtight due to energy-saving measures, making it necessary to use circulation fans. Even in foil greenhouses, where stagnant air forms due to closed ventilation, fans are essential. ERMAF fans help to avoid condensation on crops, poor heat distribution, and temperature variations. They are also suitable for use with low-volume misting and humidification systems.

ERMAF fans offer a good price-performance ratio, high airflow, low energy consumption, and low noise levels. The stainless steel construction makes them suitable for use in broiler houses, in combination with ERMAF hot air blowers. In long barns, the fans ensure uniform temperature distribution and an optimal barn climate.

2.2. Safety Regulations

The R 14 - R 20 fans are intended for the areas mentioned above. Use for other purposes is at your own risk, and the manufacturer is not liable for any resulting damage.

3. Technical Specifications

Type	R 14-9	R 16-9	R 18-9	R 20-9
Speed	980 RPM	980 RPM	965 RPM	965 RPM
Airflow	2,850 m³/h	3,250 m³/h	4,450 m³/h	5,800 m³/h
Electrical Supply	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz
Power Consumption	130 W	140 W	150 W	160 W
Current Draw	0.60 A	0.68 A	0.74 A	0.76 A
Throw Distance	15 m	25 m	35 m	45 m
Sound Pressure	56 dBA	59 dBA	62 dBA	65 dBA
Type	R 14-14	R 16-14	R 18-14	R 20-14
Speed	1,400 RPM	1,400 RPM	1,400 RPM	1,400 RPM

Type	R 14-14	R 16-14	R 18-14	R 20-14
Airflow	4,500 m ³ /h	5,100 m ³ /h	6,800 m ³ /h	8,600 m ³ /h
Electrical Supply	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz
Power Consumption	230 W	300 W	410 W	430 W
Current Draw	1.30 A	1.40 A	1.80 A	1.90 A
Throw Distance	30 m	40 m	50 m	60 m
Sound Pressure	61 dBA	64 dBA	67 dBA	70 dBA

Dimensions (Refer to the drawing in section 7.1.)

Dimension	R 14	R 16	R 18	R 20
Length (A)	445 mm	445 mm	445 mm	445 mm
Eye Distance (B)	270 mm	270 mm	270 mm	270 mm
Casing Diameter (C)	367 mm	418 mm	468 mm	517 mm
Eye Distance (D)	353 mm	397 mm	440 mm	483 mm
Weight	13.0 kg	14.0 kg	15.0 kg	16.0 kg

Main Components of the R 14 – R 20:

- **Casing:** This is used for air guidance.
- **Fan:** This ensures air distribution through the space.
- **Grilles:** Serve as a safety measure to maintain distance from rotating parts.

Materials:

- **Casing:** Stainless steel 430

4. Installation Instructions

4.1. Positioning

The number of required units depends on the size and characteristics of the space.

4.2. Assembly

- **Attention!** The following points should be considered:
 - The unit must be installed horizontally or suspended from the four supplied chains.
 - Ensure that no obstacles are present in the inlet and outlet areas.
 - Keep a distance of at least 1 meter between the air intake and the wall.
 - The unit should not be connected to a closed duct or pipe system.
 - Adhere to local electrical regulations.

4.3. Electrical Connection

Follow local authority and power company regulations. The unit should be connected to the mains using the provided grounded plug. If using an extension cord, ensure it is grounded.

5. Maintenance

- **⚠ Attention!** Do not clean the device with a pressure washer or hose. Water can enter components not designed for it and cause irreparable damage. Elster-Instromet B.V. assumes no liability for damage caused by improper cleaning. Poor or irregular cleaning can lead to fire hazards!
- Always disconnect the unit before performing any maintenance or service work.
- Clean the device regularly and after each fertilization period using compressed air. Always clean the device with compressed air before use.

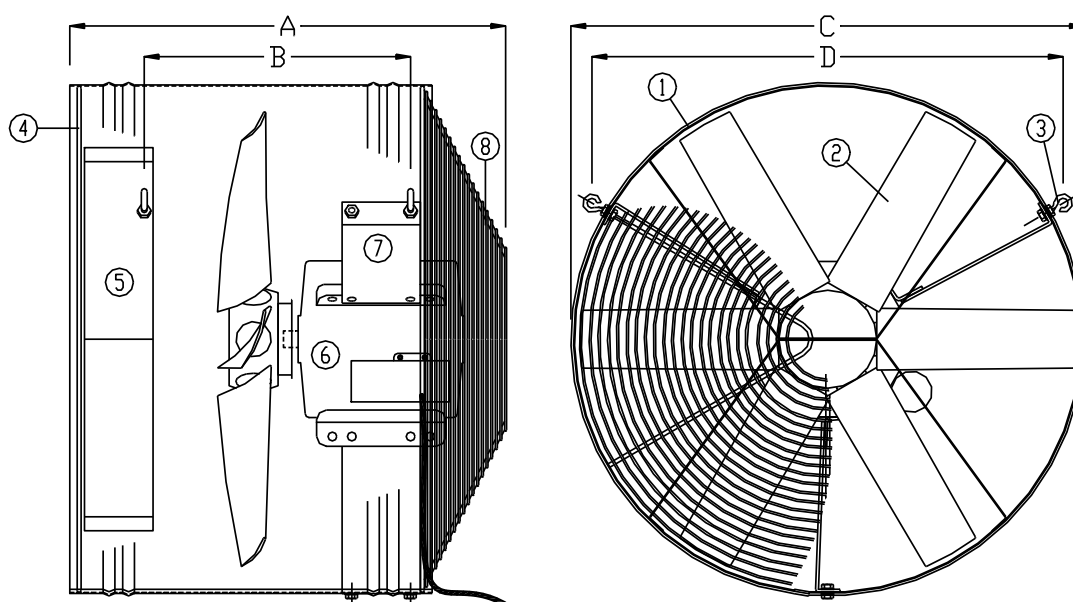
6. Malfunctions

If there is a malfunction, contact your installer. If the fan does not operate, it may be due to:

- No or insufficient power to the motor.
- The fan is obstructing the motor.
- The motor or the starting capacitor is defective.
- The thermal protection in the motor is activated; allow the unit to cool down, find the cause, and resolve the issue.

7. Parts

7.1. Parts List for R 14 - R 20



This section contains a detailed parts list, including the model number and component names, for each fan model (R 14, R 16, R 18, R 20).

Pos	Description	Code Number (R14)	Code Number (R16)	Code Number (R18)	Code Number (R20)
1	White Casing	N52820005	N52700025	N52710005	N52720005
1	Stainless Steel Casing	N52820001	N52700021	N52710001	N52720001
2	Fan Blade (354 mm, 14 mm shaft)	N52700012	N52700013	N52700014	N52700015
3	M6 Suspension Eye	N50800600			
4	Flat Grille EB 35 (14")	N52700006	N52700007	N52700008	N52700009
5	Cross Piece (14" complete)	N52820003	N52700003	N52710003	N52720003
6	Motor BX 327 EVI (900 RPM)	N52700001			
6	Capacitor (4 µF for BX 327 EVI motor)	N52800036			
6	Motor BX 335 E55 (1400 RPM)	N52700155			
6	Capacitor (10 µF for BX 335 E55 motor)	N52800033			
7	Motor Bracket (14")	N51600050	N51700011	N51400205	N51500015
8	Safety Grille (14", domed)	N52700002	N52700003	N52700004	N52700005

8. Return Form

- **Return Information:**

- Name:
- Address:
- Phone Number:
- Email:
- Return by Mr./Mrs.:
- Date:
- Description of returned goods:
- Quantity:
- Serial number of heater:
- Connection voltage:

- Pump pressure:
- Reason for return:
- Description of the malfunction:
- Desired action (Credit, Exchange, Repair):
- Comments:

Please send the goods to your nearest dealer.

8.1 Contact

resideo

Ademco 2 GmbH
Hansastraße 6, 49504 Lotte (Büren)
Germany
Tel. +49 541 982 490
orders.ermaf@resideo.com
www.ermaf.nl